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Serial Number 10/625,156

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☐ Search in all subject areas.

The "AND" operator is unnecessary -- we include all search terms by default. [\[details\]](#)

Scholar All articles Recent articles Results 1 - 100 of about 163 for barrier and syringe and hydrogel and (swell OR swells OR swelling OR sw

All Results

[R Bawa](#)

[N Peppas](#)

[D Moro](#)

[P Kuzma](#)

[H Quandt](#)

[Blood gas syringe having improved blood barrier - group of 3 »](#)

RR Cohen, P Keusch - US Patent 6,648,836, 2003 - Google Patents

... view of the porous plug of the BLOOD BARRIER invention; and ... Advantageously, the hydrogel in this state ... drawn into a fili fili-i prototype syringe through the ...

[Web Search](#)

[Rehydratable product and method of preparation thereof - group of 4 »](#)

LB Llyod, JE Beck, TJ Petelenz - US Patent 5,328,455, 1994 - Google Patents

... However, such barriers or membranes also inhibit wetting of the ... a hypodermic needle or syringe tube may ... HCDH" for highly crosslinked dry hydrogel) swells to a ...

[Cited by 13](#) - [Related Articles](#) - [Web Search](#)

[Microfluidic tectonics: A comprehensive construction platform for microfluidic systems - group of 9 »](#)

DJ Beebe, JS Moore, Q Yu, RH Liu, ML Kraft, BH Jo, ... - Proceedings of the National Academy of Sciences, 2000 - National Acad Sciences

... steady laminar flows are established by using syringe pumps, the ... the hydrogel to swell) and the hydrogel diameter is ... of the fatty acid layer as an ion barrier. ...

[Cited by 65](#) - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

[Electrokinetic concentration enrichment within a microfluidic device using a hydrogel microplug - group of 2 »](#)

R Dhopeswarkar, L Sun, RM Crooks - Lab Chip, 2005 - rsc.org

... The syringe pump was disconnected after ensuring that ... anionic hydrogel imposes two additional barriers to penetration ... are undetectable in the hydrogel interior ...

[Cited by 2](#) - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

[Wound dressing with sustained anti-microbial capability - group of 3 »](#)

WK Loke, SK Lau, LL Yong, E Khor, CK Sum - Journal of Biomedical Materials Research, 2000 - doi.wiley.com

... was obtained via a heparinized syringe from an ... as serving as a mechanical and microbial barrier. ... Chitin Films Sample Chitin Film Carboxymethyl-Chitin Hydrogel ...

[Cited by 35](#) - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

[Biodegradable hydrogel matrices for the controlled release of pharmacologically active agents - group of 4 »](#)

J Feijen - US Patent 4,925,677, 1990 - Google Patents

... surface will form an extra "barrier" for positively ... EXAMPLE 2 10 occurs until the hydrogel is mechanically ... dropwise with a syringe, and the mixture was stirred ...

[Cited by 20](#) - [Related Articles](#) - [Web Search](#)

[Manufacture of water-swellaable hydrophilic articles and drug delivery devices - group of 2 »](#)

DG Moro, P Kuzma, H Quandt - US Patent 5,292,515, 1994 - Google Patents

... Sterilized kits containing a disposable needle/syringe or trocar ... been used as rate-limiting barriers for such de- ... articles, formed of xerogel or hydrogel, of 60 ...

[Cited by 19](#) - [Related Articles](#) - [Web Search](#)

[Microgel, nanogel and hydrogel-hydrogel semi-IPN composites for biomedical applications: synthesis ... - group of 2 »](#)

N Sahiner, WT Godbey, GL McPherson, VT John - Colloid & Polymer Science, 2006 - Springer

... the sample with 0.2-µm syringe filter ... the crossing of the blood brain barrier (BBB) of ... These materials, including semi-IPN hydrogel-hydrogel composites, have ...

[Related Articles](#) - [Web Search](#)

[Fabrication of Hyaluronic Acid Hydrogel Beads for Cell Encapsulation - group of 7 »](#)

KH Bae, JJ Yoon, TG Park - tissue engineering - bama.kaist.ac.kr

... containing calcium ions through a syringe needle. ... of the HA/PLL complex barrier structure in ... HA hydrogel beads prepared from different formulation conditions ...

[Cited by 2](#) - [Related Articles](#) - [View as HTML](#) - [Web Search](#)

PROTRACTED ACTIVITY ORAL HYDROGEL BEAD BEST AVAILABLE COPY

K Kliment - US Patent 3,689,634 - Google Patents

... teristic, forms a **barrier** through which the biologically ... This allows the **hydrogel** to be refilled, or ... implanted and refilled, by hypodermic **syringe** in situ ...

Cited by 8 - [Related Articles](#) - [Web Search](#)

Fragmented polymeric compositions and methods for their use - group of 6 »

DG Wallace, CJ Reich, NS Shargill, F Vega, AE ... - US Patent 6,066,325, 2000 - Google Patents

... be protected from cellular or enzyme degradation by a protective **barrier** or cover. ... **syringe** or other applicator prior to mechanical disruption. **hydrogel**. ...

Cited by 9 - [Related Articles](#) - [Web Search](#)

Photopolymerization of bovine hemoglobin entrapped nanoscale **hydrogel** particles within liposomal ... - group of 5 »

JN Patton, AF Palmer - Biomacromolecules, 2005 - pubs.acs.org

... and since there is no distinct cellular **barrier** around NHPs ... using the optimal composition of **hydrogel** forming species ... A 1 mL gastight **syringe** was placed in one ...

Cited by 6 - [Related Articles](#) - [Web Search](#)

Preparation of homogeneous **hydrogel** copolymers - group of 2 »

P Kuzma, DG Moro, H Quandt - US Patent 5,266,325, 1993 - Google Patents

... a trocar or hypodermic needle/**syringe** and the ... have been used as rate-limiting **barriers** for such de ... of crosslinking agent would render the **hydrogel** somewhat more ...

Cited by 11 - [Related Articles](#) - [Web Search](#)

NON-HORMONAL VAGINAL CONTRACEPTIVE

S LERNER, BB SAXENA, M SINGH - EP Patent 1,313,422, 2003 - freepatentsonline.com

... structure to form an impenetrable **barrier** for sperm. ... is preserved in the original tuberculin **syringe** and covered ... onset of swelling of the **hydrogel** core during ...

[Cached](#) - [Web Search](#)

TREATMENT FOR HIGH PRESSURE BLEEDING

G WNEK, ME CARR JR, IK COHEN, G BOWLIN, KR WARD, W ... - EP Patent 1,318,778, 2003 - freepatentsonline.com

... or electrospinning system comprises a **syringe** pump 100 ... elastic, provides stiffness as the **hydrogel** inside swells ... and respectively act as a **barrier** to leaking ...

[Cached](#) - [Web Search](#)

Methods of using in situ hydration of **hydrogel** articles for sealing or augmentation of tissue or ... - group of 4 »

AS Sawhney - US Patent 6,605,294, 2003 - Google Patents

... eg, the other component in the **syringe** may comprise ... et al., "Bioabsorb- able **Hydrogel** Tissue **Barrier**: In Situ ... Upon completion of a biopsy, the **hydrogel** plug is ...

Cited by 3 - [Related Articles](#) - [Web Search](#)

Oral insulin delivery using P (MAA-g-EG) hydrogels: effects of network morphology on insulin ... - group of 5 »

K Nakamura, RJ Murray, JI Joseph, NA Peppas, M ... - J. Control. Release, 2004 - che.utexas.edu

... that all of the ILP was delivered, the **syringe** was twice ... 3. **Hydrogel** mesh size as a function of pH at 37 jC ... in the stomach is one of the main **barriers** for the ...

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Perspectives on: Chitosan Drug Delivery Systems Based on their Geometries - group of 3 »

EB Denkbass, RM Ottenbrite - Journal of Bioactive and Compatible Polymers, 2006 - jbc.sagepub.com

... sponge, rod, drug delivery, drug carrier, chitosan **hydrogel**. ... of small droplets via a **syringe** into an ... with the underlying mucosal epithelial **barrier** (to enhance ...

Cited by 2 - [Related Articles](#) - [Web Search](#)

Method of forming a membrane especially a latex or polymer membrane including multiple discrete ... - group of 4 »

RRT Shlenker, DJ Lester, CC Solomons, SS ... - US Patent 5,965,276, 1999 - Google Patents

... S. Plamthottam, Upland, Calif. [73] Assignee: BIO **Barrier**, Inc., Los Angeles, Calif. [21] F771 [63] [51] [52] Notice: This patent ...

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Composite Hydrogels for Sustained Release of Therapeutic Agents

X Liu, K Nakamura, AM Lowman - Soft Materials, 2003 - Taylor & Francis

... press-coated hydrophilic and/or hydro- phobic **barrier** layers, and ... by using a **syringe** adapted with **syringe** filter with ... Chemical Analysis of **Hydrogel** Composite ...

Cited by 1 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

Hydrogel-forming, self-solvating absorbable polyester copolymers, and methods for use thereof - group of 5 »

SW Shalaby - US Patent 6,413,539, 2002 - Google Patents

... water), undergo rapid **swelling** without discernible ... The dissipation of solvent creates **pores** within the ... of Component A; (c) providing a **hydrogel barrier** with or ...
[Cited by 20](#) - [Related Articles](#) - [Web Search](#)

Porous hydrophilic materials, chambers therefrom, and devices comprising such chambers and ... - group of 2 »
SH Ronel, MJ D'Andrea, WH Dobelle, GF Klomp, H ... - US Patent 4,298,002, 1981 - Google Patents
... **SYRINGE NEEDLE** ... Permeation Through Polymer Membranes II: Diffusion Studies On Hydrogel
Membranes. ... In these devices the mem- brane thickness (**barrier**) is governed ...
[Cited by 48](#) - [Related Articles](#) - [Web Search](#)

Azlacone-functional hydrophilic coatings and hydrogels - group of 3 »
LC Haddad, JI Hembre, JK Rasmussen, D Sarpong - US Patent 6,794,458, 2004 - Google Patents
... alkyl substituent provides a greater **barrier** to reaction ... TABLE 1 **Hydrogel Formation**
Diluent ED Gel Time ... crosslinker), and were applied by **syringe** into channels ...
[Cited by 1](#) - [Related Articles](#) - [Web Search](#)

Compositions and devices for controlled release of active ingredients - group of 5 »
CD Batich, MS Cohen, K Foster, W Toreki III - US Patent 6,306,422, 2001 - Google Patents
... polymers which absorb water and **swell** in aqueous ... from dissolving, and the polymer
swells (Tarcha, 1991 ... al., 1986) Upon **swelling**, the **hydrogel's** coefficient of ...
[Cited by 3](#) - [Related Articles](#) - [Web Search](#)

Hydrogel-Based Colloidal Polymeric System for Protein and Drug Delivery: Physical and Chemical ... - group of 2 »
A Prokop, E Kozlov, G Carlesso, JM Davidson - Adv. Polymer Sci, 2001 - Springer
... Release from Hydrogels Possessing Ionizable and Pendant Groups – **Swelling**
Hydrogel-Based Colloidal Polymeric System for Protein and Drug ... 5 ml **syringe** ...
[Cited by 6](#) - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

METHOD OF FORMING A MEMBRANE, ESPECIALLY A LATEX OR POLYMER MEMBRANE, INCLUDING MULTIPLE DISCRETE ...
RRT BECK, DJ LESTER, CC SOLOMONS, SS PLAMTHOTTAM - EP Patent 1,235,673, 2002 - freepatentsonline.com
... Assignee: **BIO BARRIER INC (US)**. ... allows penetration by the needle or **syringe** upon
entering and ... zinc stearates and other stearates, **hydrogel** compositions, powders ...
[Cached](#) - [Web Search](#)

HYDROGEL FILMS AND METHODS OF MAKING AND USING THEREFOR
YI LUO, GD PRESTWICH, KR KIRKER - EP Patent 1,305,355, 2003 - freepatentsonline.com
... **hydrogel** film can also function as a **barrier** system for ... can also be via a cannula,
catheter, **syringe** with or ... The **hydrogel** film may be applied onto a tissue in ...
[Cached](#) - [Web Search](#)

Bioresorbable sealants for porous vascular grafts - group of 2 »
DJ Lentz, GL Loomis, A Moroni, J DePreker... - US Patent 5,851,229, 1998 - Google Patents
... and imparts a substantially liquid-tight **barrier** between the ... of this invention,
"hydrogel" and "hydrogel matrix" both ... to a polymeric material that **swells** in 20 ...
[Cited by 9](#) - [Related Articles](#) - [Web Search](#)

[CITATION] **Method of forming a membrane, especially a latex or polymer membrane**
SS Plamthottam, CC Solomons, DJ Lester, RRT ... - US Patent 5,679,399, 1997
[Related Articles](#) - [Web Search](#)

Film barrier dressing for intravascular tissue monitoring system - group of 2 »
K Jersey-Willuhn, M Soleimani - US Patent 6,980,852, 2005 - Google Patents
... **FILM BARRIER DRESSING FOR INTRAVASCULAR TISSUE MONITORING SYSTEM** ... a patient in
intravenous therapy include venous inflam -mation and phlebitis, **swelling** at the ...
[Related Articles](#) - [Web Search](#)

Strategy for Cell Therapy: Polymers for Live Cell Encapsulation and Delivery - group of 2 »
S Prakash, H Soe-Lin - Trends Biomater. Artif. Organs, 2004 - medind.nic.in
... into hollow fibres via a **syringe** (24), were ... the mechanical stability of a **hydrogel**
already established ... of CS provides a mechanically stable **barrier** while the ...
[Cited by 3](#) - [Related Articles](#) - [View as HTML](#) - [Web Search](#)

Molecular design and in vitro studies of novel pH-sensitive hydrogels for the oral delivery of ... - group of 7 »
M Torres-Lugo, NA Peppas - Macromolecules, 1999 - che.utexas.edu
... was withdrawn from the beaker using a **syringe** and the ... of solute on the surface of
the **hydrogel**. ... The tethered PEG chains present additional **barriers** for this ...
[Cited by 57](#) - [Related Articles](#) - [View as HTML](#) - [Web Search](#) - [BL Direct](#)

Polyalkylene glycol viscosity-enhancing polymeric formulations - group of 4 »
LZ Avila, PK Jarrett, HM Kramer, CM Philbrook - US Patent 7,074,424, 2006 - Google Patents
... topolymerization) or heat, can be used to form the **hydrogel**. ... lower macromer concentration, the resulting gels **swell** less. ... which acts as a local **barrier** or drug ...
[Related Articles](#) - [Web Search](#)

Drug delivery systems: 3B. Role of polymers in drug delivery - group of 6 »
VV Ranade - The Journal of Clinical Pharmacology, 1990 - jcp.sagepub.com
Page 1. DRUG DELIVERY SYSTEMS J Clin Pharmacol 1990;30:107-120 107 Drug Delivery Systems: 3B. Role of Polymers in Drug Delivery Vasant V. Ranade, PhD ...
[Cited by 14](#) - [Related Articles](#) - [Web Search](#)

Intravenous delivery system
T MINER, P HARTL, A CHRISTOPH - EP Patent 1,559,442, 2005 - freepatentsonline.com
... end vent plug 74 forms a **barrier** to prevent ... Once the granular **hydrogel** fully expands, it seals off the ... material outer layer will expand or **swell** to create a ...
[Cached](#) - [Web Search](#)

Use of skin penetration enhancers and barrier disruption agents to enhance transcutaneous immune ... - group of 2 »
GM GLENN, CB ALVING - EP Patent 1,356,821, 2003 - freepatentsonline.com
... dressing, a nonocclusive dressing, a **hydrogel** dressing and ... of a plastic container having a **syringe** plunger at ... similar drugs interfere with **barrier** function and ...
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Immunoisolation techniques for islet cell transplantation - group of 5 »
EC Opara, WF Kendall Jr - Expert Opin. Biol. Ther, 2002 - ingentaconnect.com
... engineered chondrocytes, polyacrylates and AN69 **hydrogel** [26-30 ... especially when the air-jet **syringe** pump droplet ... capsule with an immune **barrier** (semi-permeable ...
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Osmotic devices having vapor-permeable coatings - group of 2 »
EL Cussler, SM Herbig, KL Smith, P van Eikeren - US Patent 5,827,538, 1998 - Google Patents
... are used in gas-transport/liquid-barrier applications ... large capacity to absorb water and **swell**, its availability ... The **hydrogel** employed can be a blend of, for ...
[Cited by 3](#) - [Related Articles](#) - [Web Search](#)

Evaluation of Alginate Microcapsules for Use in Transplantation Of Islets of Langerhans - group of 3 »
A KING - Transplantation - diva-portal.org
... One such **hydrogel** is agarose, but there is little information about the physical properties of ... Formation of immunoprotective **barrier** Poly-L-Lysine ... **Syringe** pump ...
[Cited by 1](#) - [Related Articles](#) - [View as HTML](#) - [Web Search](#) - [Library Search](#) - [BL Direct](#)

Chitin hydrogels, methods of their production and use - group of 3 »
WN Drohan, MJ MacPhee, SI Miekka, MS Singh, C ... - US Patent 6,124,273, 2000 - Google Patents
... Further provided are biomaterials comprising same. The particular supplement delivered by the chitin **hydrogel** is selected as a function of its intended use. ...
[Cited by 6](#) - [Related Articles](#) - [Web Search](#)

Responsive Biomaterial Surfaces
X Wang - lib.ncsu.edu
... of the **pores** and the transport of insulin ... membrane; (2) membrane **pore**; (3) surface free radical; (4 ... the pH of the medium, leading to increased **hydrogel swelling** ...
[Cited by 1](#) - [Related Articles](#) - [View as HTML](#) - [Web Search](#)

Controlling resorption of bioresorbable medical implant material - group of 3 »
J Li, S Baldwin, T Harrah - US Patent 6,913,765, 2005 - Google Patents
... Therefore, by embedding resorbable particles that **swell** or move ... A device may be in its **hydrogel** form or in a ... may be used as anti-adhesion **barrier** to isolate ...
[Related Articles](#) - [Web Search](#)

Mucosal insulin delivery systems based on complexation polymer hydrogels: effect of particle size on ... - group of 5 »
M Morishita, T Goto, NA Peppas, JI Joseph, MC ... - J. Control. Release, 2004 - pages.drexel.edu
... of polymers have promising properties to overcome absorption **barriers** of peptide ...
Hydrogel synthesis ... fashion consisting of coating of the **syringe** wall through ...
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New technologies in diabetes care
P Releases, CME Calendar, RY Practice, P ... - mediwire.sma.org

President's Welcome. Mission/Vision. Leadership. Special Service Awards. Press Releases.
FAQ. Southern Medical Journal. CME Calendar. CME Online Library. ...
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Biocompatible devices with foam scaffolds - group of 5 »

R Li, TF Hazlett... - US Patent 6,054,142, 2000 - Google Patents
... copolymer, or a hydrophilic matrix such as a hydrogel. ... immunoisulatory device provides
a protective barrier between these ... The pore size, pore density and void ...
[Cited by 7](#) - [Related Articles](#) - [Web Search](#)

Stable small particle liposome preparations, their production and use in topical cosmetic, and ... - group of 2 »

M Edgar, C Michel, T Purmann - US Patent 5,498,420, 1996 - Google Patents
... An increase in vesicle size always implies an increase of the number of
membrane-forming molecules per vesicle (because a liposome cannot swell). ...
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Implantable tissue repair device

BAO QI-BIN, AY HANSEN - EP Patent 1,462,128, 2004 - freepatentsonline.com
... 5,047,055, which teaches a swellable hydrogel prosthetic nucleus. ... forming an even
wider wall or barrier which affords ... be in the form of a syringe-like structure ...
[Cached](#) - [Web Search](#)

BIOCOMPATIBLE FLEECE FOR HEMOSTASIS AND TISSUE ENGINEERING

HM KRAMER, LA AVILA, CM PHILBROOK, MJ BASSETT, E ... - EP Patent 1,361,906, 2003 - freepatentsonline.com
... components resulting in degradation of the hydrogel in vivo ... in the Examples.) ADHESIVE
AND BARRIER: Because it ... prepared by utilizing a dual syringe system (1.0 ...
[Cached](#) - [Web Search](#)

Restorative surgery of the central nervous system by means of tissue engineering using NeuroGel ... - group of 4 »

S Woerly - Neurosurgical Review, 2000 - Springer
... we developed Neuro- Gel, a biocompatible hydrogel of poly(N ... 1). The swelling behaviour
of this polymer when in ... The pore architecture forms a tortuous network of ...
[Cited by 25](#) - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

Chitosan/polyethylene glycol-alginate microcapsules for oral delivery of hirudin - group of 2 »

T Chandy, DL Mooradian, GHR Rao - Journal of Applied Polymer Science, 1998 - doi.wiley.com
... on the modulation of the physiological barriers and subsequently ... 0.15-mm diameter),
from a plastic syringe in a ... Chitosan, a hydrogel based on a natural poly ...
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Hydrophilic absorbents - group of 4 »

DD Levy, SH Ronel - US Patent 4,081,402, 1978 - Google Patents
... antigen sepa -ration and analysis by: Providing a barrier to prevent ... thereby reaching
its final dimensions, (iv) water swell- 15 ... throughout the hydrogel matrix ...
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Immobilized buffered gels and membranes of hydroxy groups containing polymers - group of 10 »

C Linder, M Nemas, M Perry, R Ketraro - US Patent 5,430,099, 1995 - Google Patents
... Pore-foraging agents (eg leachable polymers, cosolvents) may be used ... may also be used
with hydrogel mono -mers ... together can form water-insoluble, but swelling, ...
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Reduction in the Initial-Burst Release by Surface Crosslinking of PLGA Microparticles Containing ... - group of 4 »

AJ Thote, JT Chappell, R Kumar, RB Gupta - Drug Development and Industrial Pharmacy, 2005 - Taylor & Francis
... hydrogel, which acts as a diffusional barrier for the ... create noncovalent interactions
between the hydrogel and the ... taken in a syringe pump and pressurized to ...
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Nano and microparticles as controlled drug delivery devices - group of 7 »

M Kumar - J. Pharm. Sci, 2000 - collection.nlc-bnc.ca
... 7.4) from a 20 ml plastipack syringe through a ... and the residence time of the hydrogel,
therefore, sets ... layers on the microspheres were effective barriers to 5 ...
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Histologic evaluation of the inflammatory response around implanted hollow fiber membranes - group of 4 »

H Clark, TA Barbari, K Stump, G Rao - Journal of Biomedical Materials Research, 2000 - doi.wiley.com
... mem- branes have been used as barrier materials for ... 175-200 g rats by syringe injection,
using ... Owing to swelling of the regenerated cellulose membrane in vivo ...

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Ultraviolet light-induced modification of crosslinked hyaluronan gels - group of 3 »

A Ramamurthi, I Vesely - Mater Res, 2003 - doi.wiley.com

... and more highly crosslinked varieties are used as **barriers** to reduce ... **Hydrogel** preparation ... The HA solution was immediately transferred using a **syringe** to 100 ...

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FILTER FOR REMOVING WATER AND/OR SURFACTANTS FROM A LIPOPHILIC FLUID

DE BURTON, AV RADOMYSELSKI, PARG FRANCE - EP Patent 1,425,093, 2004 - freepatentsonline.com

... HP 7673 Autosampler, 10 ul **syringe**, lul injection ... with the osmotic absorbent (eg , **hydrogel**- forming absorbent ... de-watering media 40 forms a **barrier** between the ...

[Cached](#) - [Web Search](#)

Hydrogels based on poly (vinyl alcohol-co-acrylic acid) as an innovative system for controlled drug ...

N Barbani, F Tricoli, C Cristallini, F Bertoni, F ... - Journal of Applied Biomaterials & Biomechanics, 2004 - jabb.biz

... and Wd is the weight of the dried **hydrogel**. ... Figure 1 - Temporal dependence of hydrogels **swelling** at different pH ... inert at- mosphere and with **barrier** packaging (2 ...

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Controlled release by extrusion of solid amorphous dispersions of drugs - group of 2 »

LE Appel, WJ Curatolo, SM Herbig, JAS Nightingale, ... - US Patent 6,706,283, 2004 - Google Patents

... a passageway in the semipermeable wall by **swell**-ing of ... ofdrug in a **swellable** polyoxamer **hydrogel** that releases ... that either passes a 0.45 /an **syringe** filter or ...

[Related Articles](#) - [Web Search](#)

Evaluation of Novel Cross-linking Agents for Gelatin/Collagen Matrices

BJ Schuler - 2004 - kitkat.wvu.edu

... The main limitations of gelatin are its extensive **swelling**, rapid dissolution and drug release. ... T ABLE 2. C OMPARISON OF THE VARIABILITY OF **SWELLING** PROFILES ...

[Related Articles](#) - [View as HTML](#) - [Web Search](#)

Device comprising means for protecting and dispensing fluid sensitive medicament

US Patent 4,855,141, 1989 - freepatentsonline.com

... driving member made of a **hydrogel**, and which **hydrogel** can continuously ... means 19, which is a fluid **barrier**, can be ... Then a 10 cc glass **syringe** is filled with the ...

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Application of Micro-and Nano-Electromechanical Devices to Drug Delivery - group of 6 »

M Staples, K Daniel, MJ Cima, R Langer - Pharmaceutical Research, 2006 - Springer

... system consisting of a glass **syringe** barrel and a ... through a conducting polymer that contacts a **swellable hydrogel**. ... delivery if the reservoir **barrier** includes a ...

[Related Articles](#) - [Web Search](#) - [BL Direct](#)

In vitro release behavior and stability of insulin in complexation hydrogels as oral drug delivery ... - group of 6 »

B Kim, NA Peppas - Int J Pharm, 2003 - che.utexas.edu

... from the solution with a **syringe** (Morishita et al ... PEG-containing **hydrogel** microparticles for oral protein ... Penetration and enzymatic **barriers** to peptide and ...

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The Relationship between Contact Lens Oxygen Permeability and Binding of Pseudomonas aeruginosato ... - group of 4 »

DH Ren, WM Petroll, JV Jester, J Ho-Fan, HD ... - the CLAO journal, 1999 - bausch.com.br

... Allergan, Inc.) is formu- lated for **hydrogel** lenses ... After removal from the **syringe** holder, the membrane was ... 490 nm excitation filter, 520 nm **barrier** filter) was ...

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NITRIC OXIDE-PRODUCING HYDROGEL MATERIALS

JL HILL-WEST, KS MASTERS - EP Patent 1,315,476, 2003 - freepatentsonline.com

... in situ to serve as biodegradable **barriers**, as carriers ... filtered through 0.2µm **syringe** filters (Gelman ... All three **hydrogel** NO donors significantly inhibited SMC ...

[Cached](#) - [Web Search](#)

DEVICE FOR REGENERATION OF ARTICULAR CARTILAGE AND OTHER TISSUE

JH BREKKE, G BRADICA, SM GOLDMAN - EP Patent 1,416,977, 2004 - freepatentsonline.com

... carbonate copolymers (PGA/TMC) **Hydrogel** Lactide/tetramethylglycolide ... However, the hydrophobic **barrier** as may be ... out by a microliter **syringe** which generally ...

[Cached](#) - [Web Search](#)

Capillary mechanisms in membrane emulsification: oil-in-water emulsions stabilized by Tween 20 and ... - group of 4 »

NC Christov, DN Ganchev, ND Vassileva, ND Denkov, ... - Colloids Surf. A, 2002 - Icp.uni-sofia.bg

... Milk proteins; Kinetic **barrier** to adsorption ... monodisperse colloidal particles:

silica-**hydrogel** and polymer ... cyclic dimpling [53] and osmotic **swelling** [54], have ...

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Delivery of LMW Heparin via Surface Coated Chitosan/peg-Alginate Microspheres Prevents Thrombosis - group of 3 »

T Chandy - Drug Delivery, 2002 - Taylor & Francis

... on the modulation of the physiological **barriers** and subsequently ... 10 ml/h, from a

plas- tic **syringe** in a ... Chitosan, a **hydrogel** based on a natural polysaccharide ...

Cited by 5 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

Device comprising liner for protecting fluid sensitive medicament - group of 2 »

JB Eckenhoff, JA Magruder, R Cortese, JR Peery, JC ... - US Patent 4,996,060, 1991 - Google Patents

... and an expandable driving member made of a **hydrogel**, 40 and which **hydrogel** can

continuously ... The film is used as a **barrier** between a fluid source and a container ...

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Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L17	3	15 and ((radiation irradiat\$3 e\$1beam (electron adj beam) gamma) same cross\$1link\$3)	US-PGP UB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	OR	ON	2007/03/19 06:10
L16	8	15 and (radiation irradiat\$3 e\$1beam (electron adj beam) gamma)	US-PGP UB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	OR	ON	2007/03/19 06:09
L15	14	14 and (pore porous)	US-PGP UB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	OR	ON	2007/03/19 06:09
L14	14	11 and (hydrophilic near3 polymer)	US-PGP UB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	OR	ON	2007/03/19 06:09

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03/19/2007

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L13	23	12 and polymer	US-PGP UB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	OR	ON	2007/03/19 06:08
L12	27	11 and hydrophilic	US-PGP UB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	OR	ON	2007/03/19 06:08
L11	33	10 and (hydrogel hydrophilic water\$1swell\$4)	US-PGP UB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	OR	ON	2007/03/19 06:08
L10	81	(blood near3 barrier) same syringe	US-PGP UB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	OR	ON	2007/03/19 06:07

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L9	6	8 not 3	US-PGP UB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	OR	ON	2007/03/19 06:07
L8	6	7 and (cross\$1link\$4 near3 (ultra\$1violet "uv" irradiat\$4 e\$1beam electron\$1beam gamma))	US-PGP UB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	OR	ON	2007/03/19 06:05
L7	103	6 and (porous near3 (plug membrane filter))	US-PGP UB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	OR	ON	2007/03/19 06:03
L6	1275	(water\$1swell\$4 with (hydrogel (hydrophilic near3 polymer)))	US-PGP UB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	OR	ON	2007/03/19 06:02

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L5	76	4 not 3.	US-PGP UB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	OR	ON	2007/03/19 06:02
L3	4	((porous with (substrate plug filter)) same (hydrophilic near3 polymer) same (radiat\$4 irradiat\$4)) and (seal\$3 air\$1tight water\$1tight)	US-PGP UB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	OR	ON	2007/03/19 06:00
L4	80	((porous with (substrate plug filter))) and ((hydrophilic near3 polymer) same (radiat\$4 irradiat\$4)) and (seal\$3 air\$1tight water\$1tight)	US-PGP UB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	OR	ON	2007/03/19 05:58
L2	0	(porous with (substrate plug filter)) same (hydrophilic near3 polymer) same (radiat\$4 irradiat\$4) same (seal\$3 air\$1tight water\$1tight)	US-PGP UB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	OR	ON	2007/03/19 05:58
L1	1	("4743258").PN.	USPAT	OR	OFF	2007/03/19 05:56
S1	2	((("6406671") or ("6551267"))).PN.	USPAT	OR	OFF	2007/03/19 05:38